

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
November 2001

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Governor
State of California

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Secretary for Resources
The Resources Agency

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Director
Department of Water Resource

State of California
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The Resources Agency
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The organization shown above represents staff and positions relevant to this report as of publication date on June 25, 2002. It is the department's policy to not show staff in "Acting" or "Temporary" positions.

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MONTHLY HIGHLIGHTS

The following highlights are activities or actions that impacted State Water Project operations during the month of November 2001.

Statewide precipitation was 120 percent of average for the 2001-2002 water year as of November 30. Statewide runoff was 75 percent of average for the water year. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available via the internet at: http://cdec.water.ca.gov/snow_rain.html.

On November 30, total storage in major SWP reservoirs was about 2.46 MAF, compared with about 2.85 MAF at this time in 2000. The average storage in the major SWP reservoirs at the end of November is about 3.42 MAF. The November 30 storage at Lake Oroville was about 1.42 MAF as compared to 1.76 MAF last year. The State's share of San Luis Reservoir storage was about 412 TAF, as compared with 460 TAF at this time last year. On November 30, the combined storage in our southern reservoirs was about 635 TAF, compared with about 627 TAF at this time last year.

Through November, SWP water deliveries for 2001 were about 1,957 TAF. This is a combination of project, transfer, and exchange waters. This is 1,294 TAF less than delivered during the same period in 2000.

Concern for Contra Costa Canal water quality continued. On November 21, the Delta Cross Channel gates were closed. By November 28, serious concerns for water quality prompted a reduction to exports and a re-opening of the Delta Cross Channel gates.

The River Outlet Valves were opened November 1 at Lake Oroville to control inlet temperatures at the Feather River Fish Hatchery. The water released through the River Outlet Valves, a total of 35,332 AF, bypassed Hyatt Powerplant. The River Outlet Valves were closed November 21.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

November 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Oct 31	4991.53	14,019								
1	4991.51	14,005	-14	5	0	0	0			
2	4991.50	13,998	-7	5	0	0	0			
3	4991.48	13,984	-14	5	0	0	0			
4	4991.47	13,977	-7	5	0	0	0			
5	4991.45	13,963	-14	5	0	0	0			
6	4991.43	13,949	-14	5	0	0	0			
7	4991.40	13,928	-21	5	0	0	0			
8	4991.39	13,921	-7	5	0	0	0			
9	4991.37	13,907	-14	5	0	0	0			
10	4991.36	13,900	-7	5	0	0	0			
11	4991.35	13,893	-7	5	0	0	0			
12	4991.40	13,928	35	5	0	0	0			
13	4991.39	13,921	-7	5	0	0	0			
14	4991.39	13,921	0	5	0	0	0			
15	4991.35	13,893	-28	5	0	0	0			
16	4991.35	13,893	0	5	0	0	0			
17	4991.35	13,893	0	5	0	0	0			
18	4991.34	13,886	-7	5	0	0	0			
19	4991.33	13,879	-7	5	0	0	0			
20	4991.34	13,886	7	5	0	0	0			
21	4991.43	13,949	63	5	0	0	0			
22	4991.54	14,026	77	5	0	0	0			
23	4991.54	14,026	0	5	0	0	0			
24	4991.66	14,111	85	5	0	0	0			
25	4991.66	14,111	0	5	0	0	0			
26	4991.66	14,111	0	5	0	0	0			
27	4991.65	14,104	-7	5	0	0	0			
28	4991.67	14,118	14	5	0	0	0			
29	4991.67	14,118	0	5	0	0	0			
30	4991.63	14,089	-29	5	0	0	0			
Total cfs-days				---	150	0	0	0	56	
Total ac-ft				70	298	0	0	0	112	
									206	
									242	
									410	
									480	

1/ Values not available on a daily basis.

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

November 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Oct 31	5567.22	28,394								
1	5567.21	28,383	-11	2	0	0	0			
2	5567.20	28,373	-10	2	0	0	0			
3	5567.22	28,394	21	2	0	0	0			
4	5567.26	28,435	41	2	0	0	0			
5	5567.25	28,425	-10	2	0	0	0			
6	5567.25	28,425	0	2	0	0	0			
7	5567.24	28,415	-10	2	0	0	0			
8	5567.25	28,425	10	2	0	0	0			
9	5567.21	28,383	-42	2	0	0	0			
10	5567.21	28,383	0	2	0	0	0			
11	5567.24	28,415	32	2	0	0	0			
12	5567.21	28,383	-32	2	0	0	0			
13	5567.22	28,394	11	2	0	0	0			
14	5567.24	28,415	21	2	0	0	0			
15	5567.23	28,404	-11	2	0	0	0			
16	5567.21	28,383	-21	2	0	0	0			
17	5567.22	28,394	11	2	0	0	0			
18	5567.25	28,425	31	2	0	0	0			
19	5567.23	28,404	-21	2	0	0	0			
20	5567.20	28,373	-31	2	0	0	0			
21	5567.25	28,425	52	2	0	0	0			
22	5567.27	28,446	21	2	0	0	0			
23	5567.30	28,477	31	2	0	0	0			
24	5567.42	28,602	125	2	0	0	0			
25	5567.44	28,623	21	2	0	0	0			
26	5567.46	28,644	21	2	0	0	0			
27	5567.44	28,623	-21	2	0	0	0			
28	5567.46	28,644	21	2	0	0	0			
29	5567.44	28,623	-21	2	0	0	0			
30	5567.47	28,654	31	2	0	0	0			
Total cfs-days				---	60	0	0	84	144	275
Total ac-ft				260	119	0	0	166	285	545

1/ Values not available on a daily basis.

Table 3. Lake Davis

Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

November 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Oct 31	5763.16	43,972								
1	5763.16	43,972	0	10	0	0	0			
2	5763.16	43,972	0	10	0	0	0			
3	5763.14	43,916	-56	10	0	0	0			
4	5763.14	43,916	0	10	0	0	0			
5	5763.13	43,888	-28	10	0	0	0			
6	5763.11	43,832	-56	10	0	0	0			
7	5763.09	43,776	-56	10	0	0	0			
8	5763.08	43,749	-27	10	0	0	0			
9	5763.07	43,721	-28	10	0	0	0			
10	5763.06	43,693	-28	10	0	0	0			
11	5763.05	43,665	-28	10	0	0	0			
12	5763.09	43,776	111	10	0	0	0			
13	5763.09	43,776	0	10	0	0	0			
14	5763.09	43,776	0	10	0	0	0			
15	5763.07	43,721	-55	10	0	0	0			
16	5763.05	43,665	-56	10	0	0	0			
17	5763.05	43,665	0	10	0	0	0			
18	5763.03	43,610	-55	10	0	0	0			
19	5762.99	43,499	-111	10	0	0	0			
20	5762.97	43,443	-56	10	0	0	0			
21	5763.04	43,637	194	10	0	0	0			
22	5763.15	43,944	307	10	0	0	0			
23	5763.14	43,916	-28	10	0	0	0			
24	5763.28	44,307	391	10	0	0	0			
25	5763.28	44,307	0	10	0	0	0			
26	5763.28	44,307	0	10	0	0	0			
27	5763.26	44,251	-56	10	0	0	0			
28	5763.24	44,195	-56	10	0	0	0			
29	5763.26	44,251	56	10	0	0	0			
30	5763.25	44,223	-28	10	0	0	0			
Total cfs-days				---	300	0	0	225	525	
Total ac-ft				251	595	0	0	447	1,042	
									1,293	

1/ Values not available on a daily basis.

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537, 580 ac-ft

November 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow					Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal	Evaporation 2/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 3/
Oct 31	722.37	1,433,405								
	1	721.93	1,429,730	-3,675	6,290	12	56	0	6,358	0
	2	721.72	1,427,979	-1,751	6,863	12	62	0	6,937	0
	3	720.97	1,421,736	-6,243	8,115	12	49	0	8,176	0
	4	720.33	1,416,423	-5,313	7,111	12	98	0	7,221	0
	5	719.79	1,411,951	-4,472	7,054	12	104	0	7,170	0
	6	719.27	1,407,654	-4,297	7,129	12	55	0	7,196	0
	7	718.70	1,402,954	-4,700	7,121	12	61	0	7,194	0
	8	718.17	1,398,593	-4,361	7,442	12	67	0	7,521	0
	9	717.64	1,394,242	-4,351	7,825	8	79	0	7,912	0
	10	717.02	1,389,164	-5,078	7,782	6	79	0	7,867	0
	11	716.43	1,384,343	-4,821	6,814	6	48	0	6,868	0
	12	716.45	1,384,506	163	6,520	6	12	0	6,538	0
	13	716.26	1,382,956	-1,550	7,633	6	42	0	7,681	0
	14	715.80	1,379,209	-3,747	7,631	6	0	0	7,637	0
	15	715.20	1,374,330	-4,879	7,819	6	36	0	7,861	0
	16	714.60	1,369,464	-4,866	7,605	6	24	0	7,635	0
	17	714.30	1,367,036	-2,428	4,946	6	24	0	4,976	0
	18	714.29	1,366,954	-82	1,983	6	12	0	2,001	0
	19	713.96	1,364,286	-2,668	5,556	6	24	0	5,586	0
	20	713.80	1,362,994	-1,292	5,098	6	42	0	5,146	0
	21	714.35	1,367,440	4,446	3,137	6	18	0	3,161	0
	22	716.48	1,384,751	17,311	403	6	30	0	439	0
	23	717.46	1,392,767	8,016	446	6	36	0	488	0
	24	719.11	1,406,333	13,566	914	6	91	0	1,011	0
	25	720.23	1,415,594	9,261	847	6	43	0	896	0
	26	720.41	1,417,086	1,492	4,289	5	25	0	4,319	0
	27	719.89	1,412,778	-4,308	7,861	3	25	0	7,889	0
	28	720.19	1,415,262	2,484	3,552	3	43	0	3,598	0
	29	720.46	1,417,500	2,238	4,385	3	12	0	4,400	0
	30	720.39	1,416,920	-580	4,923	3	0	0	4,926	0
Total				-16,485	165,094	217	1,297	0	166,608	0
1/ Includes bypass flows										
2/ Evaporation will be zero for days when there is precipitation or heavy overcast.										
3/ Does not include pumpback.										

1/ Includes bypass flows

2/ Evaporation will be zero for days when there is precipitation or heavy overcast.

3/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Capacity: 25,120 ac-ft

Daily Operation
(in acre-feet except as noted)

November 2001

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Oct 31	24,133										
1	24,136	3	6,290	0	0	5,088	1	0	1,244	0	46
2	24,106	-30	6,863	0	0	5,151	1	0	1,344	0	-397
3	24,068	-38	8,115	0	0	7,341	1	0	1,236	0	425
4	24,071	3	7,111	0	0	5,926	1	0	1,240	0	59
5	24,009	-62	7,054	0	0	5,987	1	0	1,237	0	109
6	23,938	-71	7,129	0	0	5,982	1	0	1,292	0	75
7	23,854	-84	7,121	0	0	6,025	1	0	1,258	0	79
8	24,078	224	7,442	0	0	6,076	1	0	1,250	0	109
9	23,987	-91	7,825	0	0	6,752	1	0	1,250	0	87
10	24,000	13	7,782	0	0	6,634	1	1	1,252	0	119
11	24,036	36	6,814	0	0	5,696	1	1	1,254	0	174
12	24,061	25	6,520	0	0	5,548	1	1	1,262	0	317
13	23,994	-67	7,633	0	0	6,520	1	1	1,251	0	73
14	23,658	-336	7,631	0	0	7,006	1	1	1,243	0	284
15	23,614	-44	7,819	0	0	6,600	1	1	1,235	0	-26
16	23,315	-299	7,605	0	125	6,809	1	1	1,232	0	14
17	23,144	-171	4,946	0	0	3,932	1	1	1,239	0	56
18	23,705	561	1,983	0	0	109	2	1	1,239	0	-71
19	23,754	49	5,556	0	0	4,314	2	1	1,247	0	57
20	23,716	-38	5,098	0	0	3,876	2	1	1,241	0	-16
21	24,419	703	3,137	0	0	1,371	2	1	1,247	0	187
22	23,504	-915	403	0	0	0	2	1	1,243	0	-72
23	22,630	-874	446	0	0	0	2	1	1,237	0	-80
24	22,796	166	914	0	0	0	2	1	1,249	0	504
25	22,331	-465	847	0	0	435	2	1	1,239	0	365
26	24,029	1,698	4,289	0	0	1,467	2	1	1,235	0	114
27	24,039	10	7,861	0	0	6,725	2	1	1,237	0	114
28	23,877	-162	3,552	0	0	2,608	2	1	1,247	0	144
29	24,260	383	4,385	0	0	3,200	2	1	1,249	0	450
30	24,119	-141	4,923	254	0	4,139	2	1	1,261	0	85
Total		-14	165,094	254	125	131,317	43	21	37,490	0	3,384

1/ Sum of Thermalito Forebay and Diversion Pool.

3/ Includes Bypass flows at Thermalito.

2/ Sum of releases from Lake Oroville through Hyatt plant, spill, and spillway leakage.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

November 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow	Outflow						Losses (-) and Gains (+)	Total Releases to River 2/	
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback			
Oct 31	124.76	18,239											
1	124.51	16,372	-1,867	5,088	1,471	28	639	1,541	1,029	0	-2,247	2,273	
2	124.50	16,348	-24	5,151	1,640	14	653	1,327	1,131	0	-410	2,475	
3	125.08	17,782	1,434	7,341	1,632	8	655	1,224	1,022	0	-1,366	2,258	
4	125.27	18,264	482	5,926	1,632	8	655	1,186	1,025	0	-938	2,265	
5	125.50	18,856	592	5,987	1,636	16	655	1,166	1,023	0	-899	2,260	
6	125.67	19,299	443	5,982	1,686	22	655	1,166	1,079	0	-931	2,371	
7	125.91	19,932	633	6,025	1,666	22	653	1,087	1,045	0	-919	2,303	
8	126.21	20,735	803	6,076	1,654	22	627	1,004	1,036	0	-930	2,286	
9	126.81	22,383	1,648	6,752	1,638	22	559	948	1,038	0	-899	2,288	
10	127.33	23,861	1,478	6,634	1,636	22	526	908	1,040	0	-1,024	2,292	
11	127.70	24,939	1,078	5,696	1,626	22	526	906	1,042	0	-496	2,296	
12	128.11	26,161	1,222	5,548	1,630	22	526	722	1,049	0	-377	2,311	
13	128.64	27,782	1,621	6,520	1,658	16	526	583	1,040	0	-1,076	2,291	
14	129.56	30,705	2,923	7,006	1,573	8	514	498	1,034	0	-456	2,277	
15	130.42	33,562	2,857	6,600	1,525	8	506	422	1,026	0	-256	2,261	
16	131.28	36,538	2,976	6,809	1,525	8	504	393	1,022	125	-256	2,254	
17	131.36	36,820	282	3,932	1,517	8	502	393	1,030	0	-200	2,269	
18	130.35	33,325	-3,495	109	1,513	8	502	391	1,029	0	-161	2,268	
19	130.48	33,765	440	4,314	1,527	4	506	409	1,036	0	-392	2,283	
20	130.56	34,038	273	3,876	1,498	4	499	413	1,031	0	-158	2,272	
21	130.07	32,385	-1,653	1,371	1,460	4	499	389	1,036	0	364	2,283	
22	128.90	28,594	-3,791	0	1,452	4	502	389	1,033	0	-411	2,276	
23	127.74	25,057	-3,537	0	1,456	4	502	390	1,031	0	-154	2,268	
24	126.82	22,411	-2,646	0	1,454	3	499	390	1,043	0	743	2,292	
25	125.56	19,012	-3,399	435	1,458	4	498	388	1,036	0	-450	2,275	
26	124.68	16,787	-2,225	1,467	1,454	4	502	377	1,029	0	-326	2,264	
27	125.91	19,932	3,145	6,725	1,367	4	508	355	1,027	0	-319	2,264	
28	125.75	19,509	-423	2,608	1,278	4	502	351	1,038	0	142	2,285	
29	125.68	19,325	-184	3,200	1,249	4	506	353	1,039	0	-233	2,288	
30	126.04	20,279	954	4,139	1,229	4	504	331	1,051	0	-66	2,312	
Total		2,040	131,317	45,740	331	16,410	20,400	31,170	125	-15,101	68,660		

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

Table 7. Oroville-Thermalito Complex

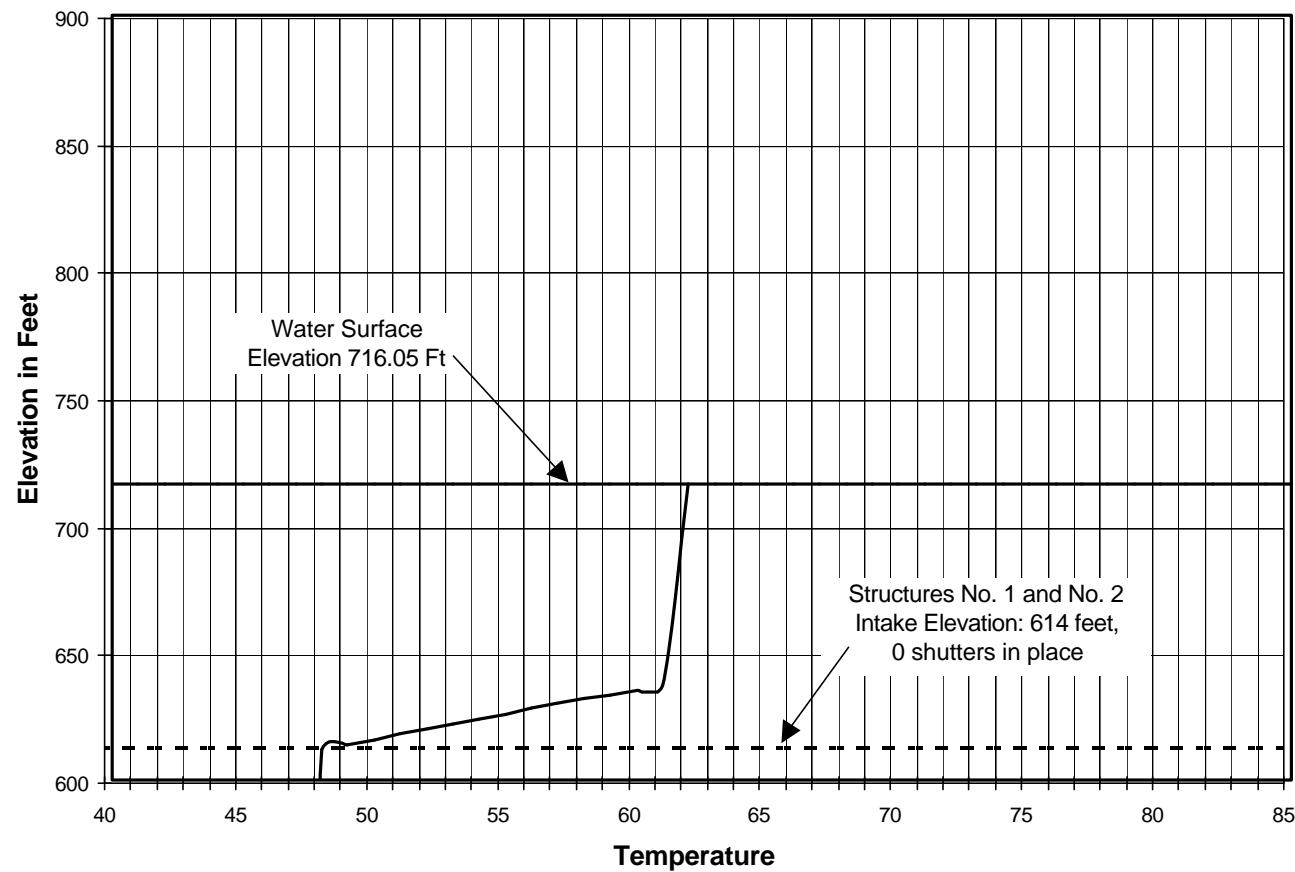
Water Temperature Data

(in degrees Fahrenheit)

November 2001

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	58	59
2	58	59
3	58	58
4	58	58
5	58	58
6	58	57
7	58	57
8	57	58
9	57	57
10	57	57
11	57	57
12	57	56
13	56	56
14	56	56
15	57	57
16	56	57
17	57	57
18	57	57
19	56	55
20	56	55
21	56	55
22	56	55
23	55	55
24	54	54
25	53	55
26	51	54
27	50	56
28	49	57
29	47	56
30	47	56

**Lake Oroville Temperature Profile
on November 21, 2001**



Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

November 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending					Entitlement		Dry Year Purchase	Permit		
	No.	Structure	Mile			M & I	Benicia				
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	3,962	448	497	28	172		
		Travis Surge Tank	8.78								
			8.80	Solano County Water Agency Travis Turnout	172						
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	448						
				Solano County Water Agency Fairfield / Vacaville 42"	497						
			17.00	Solano County Water Agency Central Solano	Stub						
		Cordelia Forebay	21.23								
3A	2	Cordelia Pumping Plant & Cordelia Spillway	21.30		2,702	1	21	831	985		
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	746						
				Solano County Water Agency Benicia	985						
		Cordelia Surge Tank	23.33								
		Creston Surge Tank Connection	25.65								
			26.95	Napa County Flood Control & WCD American Canyon 2	1						
			27.27	Napa County Flood Control & WCD American Canyon 3	0						
3B		Napa Terminal Tank	27.58	City of Napa	831	21		118			
			27.60	Napa County Flood Control & WCD American Canyon 1	139						

Table 9. Delta Field Division Plant Data

(in acre-feet)

November 2001

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	79	47	3,985	3,985	434	0	0	0
2	117	70	4,606	4,606	438	0	0	0
3	133	88	5,418	5,418	432	0	0	0
4	160	117	4,874	4,874	393	0	0	0
5	169	116	3,214	3,214	217	0	0	0
6	183	130	6,974	6,974	217	0	0	0
7	171	119	4,971	4,971	276	0	0	0
8	147	103	3,802	3,802	406	0	0	0
9	152	112	3,986	3,986	453	0	0	0
10	147	116	5,989	5,989	447	0	0	0
11	134	99	7,167	7,167	346	0	0	0
12	125	91	5,683	5,683	256	0	0	0
13	133	98	6,740	6,740	217	0	0	0
14	133	89	7,753	7,753	192	0	0	0
15	138	93	9,142	9,142	64	0	0	0
16	122	82	8,279	8,279	31	0	0	0
17	122	91	10,838	10,838	51	0	0	37
18	130	96	9,898	9,898	31	0	0	113
19	130	84	9,899	9,899	46	0	0	158
20	132	85	9,137	9,137	31	0	0	173
21	139	86	6,092	6,092	31	0	0	171
22	132	79	6,284	6,284	31	0	0	130
23	128	78	6,033	6,033	31	0	0	78
24	106	65	7,937	7,937	31	0	0	14
25	119	78	7,181	7,181	27	0	0	1
26	121	75	6,586	6,586	28	0	0	0
27	129	83	6,033	6,033	26	0	0	0
28	115	78	7,199	7,199	25	0	0	0
29	106	76	4,576	4,576	32	0	0	0
30	110	78	1,900	1,900	27	0	0	0
Total	3,962	2,702	192,176	192,176	5,267	0	0	875

Table 10. Clifton Court Forebay

Daily Operation of Gates

November 2001

Date	Time										Amount of inflow in Acre-Feet
	Opened	Closed									
1	---	2:10	3:30	11:37	14:17	15:53					3,963
2	3:40	9:15									4,950
3	0:01	1:15	4:15	12:25							5,934
4	0:05	1:57	4:57	9:50							4,938
5	1:35	2:43	6:57	9:00	10:12	11:50	16:52	21:01	21:05	21:20	3,903
6	0:06	3:00	6:55	14:10							6,672
7	0:08	4:10	8:25	12:11							4,950
8	0:24	4:30	13:53	17:48							3,953
9	0:05	4:30	14:43	17:07							3,963
10	0:15	6:10	16:26	19:20							5,943
11	0:01	7:23	16:06	18:10							5,942
12	0:01	6:00	16:42	20:00							7,919
13	1:24	8:31	13:33	14:15							6,934
14	2:09	9:00	18:00	21:25							7,904
15	2:55	9:40	14:05	15:43	18:40	---					8,324
16	---	0:37	3:37	11:42	14:08	15:46					7,913
17	0:01	1:22	4:32	17:15	19:43	---					11,699
18	---	2:04	5:04	18:02							9,510
19	0:20	2:50	5:50	17:35							9,318
20	0:30	3:38	12:30	20:13							9,245
21	0:05	3:40	12:58	17:40							5,941
22	0:05	4:05	13:51	17:41							5,940
23	0:01	4:05	14:36	17:36							5,926
24	0:01	4:25	15:08	20:00							7,915
25	0:15	5:15	15:33	18:44							6,859
26	0:25	5:22	16:02	18:20							5,941
27	1:03	7:48	16:29	20:25							7,925
28	1:35	8:18	11:30	14:09	17:12	18:10					6,941
29	2:00	6:23	8:45	13:55							3,952
30	4:00	6:05									1,943
Total inflow for the month in AF:											193,160

Table 11. Governor Edmund G. Brown California Aqueduct
 Delta Field Division, Monthly Deliveries

(In acre-feet)

November 2001

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries					
	Beginning and Ending				Entitle-ment	USBR	Local	Dry Year Purchase	Cryover Ent.	
	No.	Structure	Mile							
1	1	Banks Pumping Plant	3.32		192,176					
		South Bay Pumping Plant	4.49	Bethany Reservoir inlet	5,267					
		Check No. 1	5.95							
	2	Check No. 2	12.01							
			12.47	Musco Olive	78		78			
	3	Check No. 3	18.29							
			22.16	Tracy Golf & Country Club	0					
	4	Check No. 4	23.99							
		Check No. 5	29.73							
	5	Check No. 6	34.24							
			35.22	Turlock Fruit Company Inflow	0					
2A	7	Check No. 7	39.91							
			42.46	Oak Flat Water District-A	0					
			42.9	Western Hills WD	12					
			43.81	Oak Flat Water District-B	23		12			
			44.64	Oak Flat Water District-C	7					
	8	Check No. 8	45.97							
			46.18	Oak Flat Water District-D	7					
				Oak Flat Totals:	37					
						37	0	0	0	
2B	9	Check No. 9	51.3							
		Check No. 10	56.86							
	10	Check No. 11	61.4							
			66.14	Veteran's Cemetery	3					
	12	Check No. 12	66.71		172,696					

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

November 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending					Entitlement	Water Bank Recovery	Local	Recreation		
	No.	Structure	Mile								
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	5,267	1	437	466			
			3.17	Granite - Vasco Rd. (Temp.)	0						
			3.18	Oakland Scavenger Zone 7	1						
		Check No. 1	3.91								
	2	Check No. 2	5.21								
2	3		7.21	Zone 7 Altamont	6	6	437	466			
		Check No. 3	9.49	Zone 7 Patterson Stored Exchange	0						
				Zone 7 Patterson Project Water	903						
4	4	Check No. 4	10.68			9	487	487			
	5	Check No. 5	12.29								
	6		13.55	Zone 7 Wente #1	9						
			14.16	Zone 7 Wente #2	0						
			14.31	Ising Project Water	0						
			14.65								
	7		14.78	Zone 7 Arroyo Mocho	487						
			16.38								
	8	Del Valle Branch Pipeline Junction	16.57	Zone 7 Wente #3	0	240	508	113	1		
			16.69	Zone 7 Norman Nursery	0						
			16.70	Zone 7 Concannon Project Water	0						
			18.63	(Pumped into Lake Del Valle)	0						
				(Flow into South Bay Aqueduct)	875						
5	8	Deliveries through Del Valle Branch Pipleline		Arroyo Valle #1 & #2 Project Water	240	7	663	183	1		
				Arroyo Valle #1 & #2 Stored Exchange	0						
				Lake Del Valle Recreation	1						
				Zone 7 Wente #5	7						
				So. Livermore Project	508						
6			19.20	So. Livermore Inflow Released	0	5	2,888	2,888			
				So. Livermore Inflow Exchanged	113						
				Zone 7 - Kalthrof Detjens	5						
7		La Costa Tunnel	22.50	ACWD Vallecitos Storage Exchanged	183	663	663	183			
				City of San Francisco San Antonio	0						
8		Mission Tunnel	28.97	ACWD - Bayside 1 & 2 Project Water:	663	2,888	2,888	2,888			
				Inflow Released	0						
9		Santa Clara Pipeline	35.86	Stored Exchange: S.C.V.W.D. Meter	0						

Table 13. Lake Del Valle
Daily Operation

Capacity: 77,106 ac-ft

November 2001

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct	Recreation Deliveries 2/	Evaporation	Total Outflow	
Oct 31	701.02	38,529									
1	701.00	38,515	-14	-12	0	0	0	0	2	2	0.00
2	700.99	38,508	-7	-4	0	0	0	0	3	3	0.00
3	700.97	38,494	-14	-4	0	0	0	0	10	10	0.00
4	700.90	38,446	-48	-40	0	0	0	0	8	8	0.00
5	700.62	38,253	-193	-183	0	0	0	0	10	10	0.00
6	700.30	38,033	-220	-214	0	0	0	0	6	6	0.00
7	700.04	37,855	-178	-172	0	0	0	0	6	6	0.00
8	700.02	37,841	-14	-8	0	0	0	0	6	6	0.00
9	700.03	37,848	7	15	0	0	0	0	8	8	0.00
10	699.99	37,820	-28	-23	0	0	0	0	5	5	0.00
11	699.98	37,814	-6	-2	0	0	0	0	4	4	0.03
12	700.03	37,848	34	38	0	0	0	0	4	4	0.78
13	699.98	37,814	-34	-30	0	0	0	0	4	4	0.03
14	699.85	37,725	-89	-85	0	0	0	0	4	4	0.00
15	699.78	37,677	-48	-43	0	0	0	0	5	5	0.02
16	699.77	37,670	-7	-3	0	0	0	0	4	4	0.00
17	699.72	37,636	-34	6	0	0	37	0	3	40	0.00
18	699.70	37,622	-14	102	0	0	113	0	3	116	0.00
19	699.71	37,629	7	168	0	0	158	0	3	161	0.00
20	699.70	37,622	-7	170	0	0	173	0	4	177	0.00
21	699.67	37,602	-20	153	0	0	171	0	2	173	0.00
22	699.69	37,616	14	145	0	0	130	0	1	131	0.10
23	699.67	37,602	-14	69	0	0	78	0	5	83	0.00
24	699.76	37,663	61	79	0	0	14	0	4	18	0.57
25	699.75	37,656	-7	-5	0	0	1	0	1	2	0.15
26	699.76	37,663	7	11	0	0	0	0	4	4	0.02
27	699.73	37,643	-20	-16	0	0	0	0	4	4	0.00
28	699.74	37,650	7	10	0	0	0	0	3	3	0.26
29	699.77	37,670	20	22	0	0	0	0	2	2	0.19
30	699.72	37,636	-34	-31	0	0	0	1	2	3	0.14
Total			-893	113	0	0	875	1	130	1,006	2.29

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ To East Bay Regional Park District.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

November 2001

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliv-eries 2/	
Oct 31	222.35	49,314										
1	222.39	49,421	107	0	2,724	854	1,566	0	3,262	1,876	7	55
2	221.92	48,176	-1,245	0	2,613	0	2,231	0	3,255	2,146	7	-64
3	221.57	47,257	-919	0	2,532	0	2,108	0	2,710	2,431	5	43
4	220.92	45,551	-1,706	0	2,569	0	1,966	0	2,180	3,211	3	-1
5	220.16	43,567	-1,984	0	2,619	0	1,424	0	2,993	1,996	5	-49
6	221.53	47,152	3,585	0	2,704	1,730	3,015	0	4,400	1,206	5	-31
7	221.92	48,176	1,024	0	2,361	1,514	1,965	0	3,576	1,557	5	-186
8	220.60	44,714	-3,462	0	2,075	0	1,868	0	3,120	2,864	4	300
9	220.55	44,583	-131	0	1,990	870	1,747	0	2,075	2,733	5	140
10	221.99	48,360	3,777	0	1,955	1,084	2,467	0	814	2,868	5	85
11	219.72	42,428	-5,932	0	2,025	0	3,297	0	6,226	1,981	5	-101
12	219.65	42,248	-180	0	2,094	0	2,377	0	3,370	1,325	6	139
13	221.15	46,154	3,906	0	2,215	436	3,056	0	1,170	2,536	7	-25
14	222.03	48,464	2,310	0	2,733	0	3,481	0	2,430	2,669	7	57
15	222.08	48,597	133	0	3,228	293	4,149	0	5,117	2,420	8	-58
16	222.24	49,022	425	0	3,253	1,757	3,887	0	6,381	2,297	8	3
17	224.06	53,888	4,866	0	3,245	2,636	5,110	0	6,032	2,813	7	314
18	220.33	44,009	-9,879	0	3,279	0	4,950	0	9,078	4,139	8	15
19	221.61	47,362	3,353	0	3,269	1,478	4,764	0	5,562	2,315	7	63
20	221.65	47,467	105	0	3,413	0	4,091	0	4,984	2,786	7	326
21	221.60	47,336	-131	0	3,490	149	3,111	0	4,835	1,909	7	-65
22	219.39	41,579	-5,757	0	3,477	0	2,725	0	6,100	3,103	3	102
23	219.46	41,759	180	0	3,388	0	2,664	0	3,857	2,217	3	116
24	220.52	44,505	2,746	0	3,497	0	3,563	0	3,250	2,525	3	102
25	219.32	41,400	-3,105	0	3,743	0	3,693	0	6,556	2,582	3	140
26	220.65	44,844	3,444	0	3,839	0	2,895	0	2,975	1,887	2	-134
27	222.29	49,155	4,311	0	3,681	2,560	2,652	0	5,144	1,603	2	29
28	220.36	44,088	-5,067	0	3,729	0	3,414	0	8,056	1,615	2	-25
29	218.93	40,407	-3,681	0	2,762	0	2,324	0	5,785	1,514	2	359
30	219.39	41,579	1,172	0	981	1,527	503	0	803	1,672	2	57
Total			-7,735	0	85,483	16,888	87,063	0	126,096	68,796	150	1,708
Mean cfs			- - -	0	2,849	563	2,902	0	4,203	2,293	5	57
Acre-feet			-7,735	169,560	33,498	172,696	0	250,112	136,458	298	3,379	

1/ Pump-in located at Mile 79.67R.

2/ Includes 112 AF delivered to DFG at O'Neill Forebay and 186 AF to San Luis Water District.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

November 2001

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.	
Oct 31	428.16	764,056						
1	428.61	768,172	4,116	3,262	854	137	0	-196
2	429.28	774,315	6,143	3,255	0	146	0	-12
3	429.83	779,369	5,054	2,710	0	152	0	-10
4	430.25	783,237	3,868	2,180	0	149	0	-81
5	430.82	788,496	5,259	2,993	0	164	0	-178
6	431.34	793,304	4,808	4,400	1,730	138	0	-108
7	431.76	797,195	3,891	3,576	1,514	146	0	46
8	432.40	803,137	5,942	3,120	0	149	0	25
9	432.62	805,183	2,046	2,075	870	121	0	-52
10	432.52	804,253	-930	814	1,084	120	0	-79
11	433.80	816,187	11,934	6,226	0	113	0	-96
12	434.52	822,926	6,739	3,370	0	105	0	133
13	434.60	823,676	750	1,170	436	102	0	-254
14	435.08	828,180	4,504	2,430	0	103	0	-56
15	436.07	837,497	9,317	5,117	293	145	0	18
16	436.91	845,430	7,933	6,381	1,757	232	0	-393
17	437.58	851,776	6,346	6,032	2,636	245	0	48
18	439.40	869,095	17,319	9,078	0	137	0	-209
19	440.18	876,553	7,458	5,562	1,478	267	0	-57
20	441.17	886,051	9,498	4,984	0	241	0	46
21	442.03	894,329	8,278	4,835	149	252	0	-261
22	443.18	905,440	11,111	6,100	0	248	0	-250
23	443.86	912,031	6,591	3,857	0	245	0	-289
24	444.57	918,931	6,900	3,250	0	222	0	451
25	445.77	930,631	11,700	6,556	0	215	0	-442
26	446.28	935,619	4,988	2,975	0	200	0	-260
27	446.70	939,733	4,114	5,144	2,560	220	0	-290
28	448.26	955,068	15,335	8,056	0	211	0	-114
29	449.38	966,128	11,060	5,785	0	188	0	-21
30	449.21	964,447	-1,681	803	1,527	151	0	28
Total			200,391	126,096	16,888	5,264	0	-2,913
Mean cfs			- - -	4,203	563	175	0	-97
Acre-feet			200,391	250,112	33,498	10,440	0	-5,783

1/ Pacheco Tunnel, San Felipe Split; Santa Clara: 9,282 AF, San Benito: 1,158 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

November 2001

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	3,721	2,932	1,693	1,693	6,470	-113	271
2	4,256	3,507	0	0	6,456	1,560	290
3	4,822	4,022	0	0	5,375	2,605	301
4	6,369	5,472	0	0	4,324	8	295
5	3,960	3,181	0	0	5,936	992	326
6	2,392	1,618	3,431	3,431	8,727	3,801	273
7	3,089	2,284	3,003	3,003	7,093	2,215	290
8	5,681	4,895	0	0	6,188	2,430	296
9	5,420	4,893	1,726	1,726	4,115	-123	240
10	5,688	5,153	2,150	2,150	1,614	-40	239
11	3,929	3,399	0	0	12,350	5,275	225
12	2,629	2,105	0	0	6,685	5,081	208
13	5,030	4,502	865	865	2,321	-43	203
14	5,293	4,769	0	0	4,820	296	204
15	4,801	4,278	582	582	10,149	3,914	287
16	4,556	4,018	3,486	3,486	12,657	8,601	460
17	5,579	5,050	5,229	5,229	11,965	6,892	486
18	8,209	7,672	0	0	18,007	8,407	272
19	4,592	4,066	2,931	2,931	11,033	7,443	530
20	5,526	4,964	0	0	9,886	4,768	478
21	3,786	3,458	296	296	9,591	3,724	500
22	6,155	5,796	0	0	12,099	3,179	492
23	4,398	4,051	0	0	7,651	2,552	485
24	5,009	4,675	0	0	6,446	1,447	440
25	5,122	4,783	0	0	13,003	689	427
26	3,743	3,441	0	0	5,900	846	397
27	3,179	2,847	5,078	5,078	10,203	3,989	436
28	3,203	2,880	0	0	15,980	7,226	418
29	3,004	2,680	0	0	11,475	4,463	372
30	3,317	2,991	3,028	3,028	1,593	23	299
Total	136,458	120,382	33,498	33,498	250,112	92,107	10,440

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations

November 2001

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Oct 31	323.33	18,535					
1	323.32	18,530	-5	0	0	0	-5
2	323.31	18,526	-4	0	0	0	-4
3	323.31	18,526	0	0	0	0	0
4	323.30	18,522	-4	0	0	0	-4
5	323.29	18,517	-5	0	0	0	-5
6	323.28	18,513	-4	0	0	0	-4
7	323.25	18,499	-14	0	0	0	-14
8	323.25	18,499	0	0	0	0	0
9	323.25	18,499	0	0	0	0	0
10	323.28	18,513	14	7	0	0	0
11	323.27	18,508	-5	0	0	0	-5
12	323.28	18,513	5	3	0	0	-1
13	323.27	18,508	-5	0	0	0	-5
14	323.28	18,513	5	3	0	0	-1
1/ 15	323.28	18,513	0	1	0	1	0
16	323.27	18,508	-5	0	0	0	-5
17	323.25	18,499	-9	0	0	0	-9
18	323.25	18,499	0	0	0	0	0
19	323.25	18,499	0	0	0	0	0
20	323.24	18,495	-4	0	0	0	-4
21	323.24	18,495	0	0	0	0	0
22	323.24	18,495	0	0	0	0	0
23	323.23	18,491	-4	0	0	0	-4
24	323.25	18,499	8	4	0	0	0
25	323.22	18,486	-13	0	0	0	-13
26	323.22	18,486	0	0	0	0	0
27	323.20	18,477	-9	0	0	0	-9
28	323.20	18,477	0	0	0	0	0
29	323.23	18,491	14	7	0	0	0
30	323.23	18,491	0	0	0	0	0
Total			-44	25	0	1	-92
Mean cfs			---	1	0	0	---
Acre-feet			-44	50	0	2	-92

1/ Exercised gate; released 1 AF.

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

November 2001

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft) 1/	Storage Change (ac-ft) 1/	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft) 1/
					Spill	Outlet	
Oct 31	601.50	763					
1	Not Observed			0	0	0	
2	601.40	758	-5	0	0	0	
3	Not Observed			0	0	0	
4	Not Observed			0	0	0	
5	601.60	769	11	6	0	0	
6	Not Observed			0	0	0	
7	601.60	769	0	0	0	0	
8	Not Observed			0	0	0	
9	601.60	769	0	0	0	0	
10	601.60	769	0	0	0	0	
11	601.65	772	3	3	0	1	
12	601.70	775	3	3	0	1	
13	Not Observed			1	0	1	
14	Not Observed			1	0	1	
15	Not Observed			1	0	1	
16	601.85	783	8	5	0	1	
17	Not Observed		0	1	0	1	
18	601.80	780	-3	0	0	1	
19	601.90	786	6	5	0	2	
20	601.95	789	3	3	0	1	
21	601.90	786	-3	0	0	1	
22	601.90	786	0	1	0	1	
23	602.00	792	6	4	0	1	
24	602.05	792	0	1	0	1	
25	602.00	792	0	1	0	1	
26	602.05	794	0	3	0	2	
27	Not Observed			2	0	2	
28	602.10	797	3	3	0	1	
29	602.15	800	3	3	0	1	
30	602.20	803	3	3	0	1	
Total			38	50	0	23	---
Mean cfs			---	2	0	1	---
Acre-feet			38	99	0	45	-16

1/ Not available on a daily basis

Table 19a. Governor Edmund G. Brown California Aqueduct
 San Luis Field Division, Monthly Deliveries

(In acre-feet)

November 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
		Beginning and Ending				USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure	Mile								
2B	12	Check No. 12	66.71		172,696			0	0		
3	13	O'Neill Forebay and San Luis Reservoir	70.85	Department of Parks and Recreation		186	186	62	50		
		Outlet Check No. 13		Department of Fish & Game	112						
		70.91	Thru	San Luis Water District	186						
		85.08		(Floodwater Inflow)	0						
				Reach 3 Subtotal:	298	186	0	62	50		
		Dos Amigos Pumping Plant	86.73		136,458						
4	14	89.03	Thru	San Luis Water District	869	869	172				
		94.06									
		89.66	Thru	Pacheco Water District	172						
		89.67									
		89.68		Panoche Water District	33						
		89.70		City of Dos Palos	73	33	73				
		Check No. 14	95.06								
		98.15	Thru	San Luis Water District	2						
		104.20									
		96.15	Thru	Panoche Water District	650						
	15	102.64		(Floodwater Inflow)	0	650	1				
		102.64		Broadview Water District	1						
		105.22	Thru	Westlands Water District	2,343						
		108.64									
		Check No.15	108.50								
				Pacheco Water District Total:	172	172	0	0	0		
				Broadview Water District Total:	1	1	0	0	0		
				City of Dos Palos Total:	73	73	0	0	0		
				SLWD Reach 4 Subtotal:	871	871	0	0	0		
				Panoche Water District Total:	683	683	0	0	0		
				SLWD Total:	1,057	1,057	0	0	0		
				Westlands WD Reach 4 Subtotal:	2,343	2,343	0	0	0		

Table 19b. Governor Edmund G. Brown California Aqueduct
San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

November 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending		No.			USBR	Transfer	DWR Recreation	USBR Recreation				
	No.	Structure	Mile										
5	16		110.52	(Reverse flow, Kings River)	0	1,670	1,670	1					
			Thru	Westlands Water District	1,670								
			122.05	Department of Fish and Game	1								
		Check No. 16	122.07										
	17		124.18	Westlands Water District	1,763	1,763		1					
			Thru										
		Check No. 17	132.74										
	18		133.81	Westlands Water District	2,625	2,625		1					
			Thru										
			142.61										
		Pleasant Valley Pumping Plant	143.16	Westlands Water District	1,479	1,479		1					
			143.16	City of Coalinga	281								
		Check No. 18	143.23										
6	19		145.26	Westlands Water District	1,659	1,659		1					
			Thru										
			151.19										
		Check No. 19	155.64										
				Westlands WD Reach 6 Subtotal:	1,659	1,659	0	0	0				
7	20		156.34	City of Huron	68	68		1					
			156.40	Westlands Water District	1,312								
			Thru										
			163.69										
		Check No. 20	164.69										
	21		164.79	City of Avenal	160	160		1					
			167.04	Westlands Water District	680								
			Thru										
			171.67										
		Check No. 21	172.40		123,447								
			Reach 7 Total:	2,220	2,220	0	0	0	0				
			Westlands WD Total:	13,531	13,531	0	0	0	0				
			City of Coalinga Total:	281	281	0	0	0	0				
			City of Huron Total:	68	68	0	0	0	0				
			City of Avenal Total:	160	160	0	0	0	0				
			Phase I Water Total:	0	0	0	0	0	0				
			Total San Luis Field Division Deliveries:	16,139	16,026	0	63	50					

Table 20. Consolidated State-Federal San Luis Canal 1/

Daily Operations
November 2001

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non-Project 2/	Dos Amigos Pumping Plant	Pools 14 & 15 3/	Pool 15	Pools 15 thru 21 4/	Flow Past Check 21	
Oct 31	29,177								
1	28,446	-731	0	1,876	19	8	235	2,036	53
2	27,886	-560	0	2,146	19	8	230	2,304	132
3	28,483	597	0	2,431	20	10	217	1,808	-75
4	28,152	-331	0	3,211	19	15	224	3,205	86
5	28,585	433	0	1,996	18	15	351	1,443	49
6	28,984	399	0	1,206	22	15	259	712	3
7	27,545	-1,439	0	1,557	23	15	257	1,995	7
8	28,220	675	0	2,864	30	18	329	2,085	-61
9	28,269	49	0	2,733	31	16	348	2,364	51
10	28,440	171	0	2,868	38	14	302	2,470	42
11	28,906	466	0	1,981	38	15	304	1,469	80
12	28,568	-338	0	1,325	38	15	307	1,299	163
13	28,483	-85	0	2,536	29	12	229	2,437	128
14	29,588	1,105	0	2,669	29	12	233	1,905	67
15	29,136	-452	0	2,420	15	13	201	2,458	39
16	29,039	-97	0	2,297	15	11	225	2,076	-19
17	28,704	-335	0	2,813	14	17	237	2,677	-37
18	29,146	442	0	4,139	10	18	152	3,676	-60
19	28,922	-224	0	2,315	24	16	349	2,154	115
20	29,119	197	0	2,786	22	10	198	2,336	-121
21	28,403	-716	0	1,909	22	8	203	2,106	69
22	28,823	420	0	3,103	21	6	156	2,758	50
23	28,333	-490	0	2,217	8	7	160	2,354	65
24	29,327	994	0	2,525	7	8	150	1,821	-38
25	28,662	-665	0	2,582	3	10	167	2,814	76
26	28,561	-101	0	1,887	5	8	162	1,849	86
27	28,449	-112	0	1,603	7	7	204	1,372	-70
28	28,659	210	0	1,615	7	7	207	1,313	25
29	28,159	-500	0	1,514	5	5	240	1,562	46
30	27,918	-241	0	1,672	5	5	243	1,379	-161
Total		-1,259	0	68,796	563	344	7,079	62,237	792
Mean cfs		---	0	2,293	19	11	236	2,075	26
Acre-feet		-1,259	0	136,458	1,116	683	14,042	123,447	1,571

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Pump In of Non-Project Water (0 AF @ Lat.7L) and Flood Water (0 AF) is included in the gain or loss.

3/ Includes 171 AF AG & 1 AF M&I to Pacheco W.D. and 73 AF to the City of Dos Palos.

4/ Includes 68 AF to the City of Huron, 160 AF to the City of Avenal, 281 AF to the City of Coalinga, 1 AF to Fish & Game @ Lat. 4L, and 1 AF to Broadview W.D.

Table 21. San Joaquin Field Division Plant Data

November 2001

(in acre-feet)

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	29	29	0	0	0	3,463	3,672	3,630	3,529
2	29	29	0	0	0	4,228	4,207	4,169	4,142
3	48	48	0	0	0	3,359	3,505	3,462	3,368
4	26	26	0	0	0	5,983	5,909	5,900	5,909
5	16	16	0	0	0	2,396	2,425	2,300	2,163
6	49	49	0	0	0	1,628	1,871	1,803	1,855
7	35	35	4	4	6	3,814	3,759	3,664	3,655
8	20	20	1	1	1	4,506	4,683	4,703	4,620
9	9	9	7	8	7	4,681	4,696	4,576	4,488
10	64	64	60	56	62	4,803	4,948	4,913	4,808
11	2	2	1	1	1	3,399	3,536	3,506	3,481
12	7	7	11	11	12	2,726	2,704	2,876	2,603
13	59	59	59	54	60	4,806	4,816	4,597	4,595
14	136	136	55	51	55	4,530	4,353	4,736	4,628
15	164	164	98	92	96	4,527	4,844	4,692	4,590
16	117	117	84	78	83	4,660	4,582	4,593	4,590
17	96	96	56	47	60	5,065	5,339	5,214	5,077
18	55	55	47	44	49	7,568	7,813	7,716	7,735
19	93	93	59	53	59	4,637	4,795	4,727	4,603
20	79	79	41	37	42	4,657	4,721	4,681	4,620
21	68	68	47	44	50	4,322	4,574	4,551	4,501
22	59	59	44	41	46	5,912	5,717	5,752	5,801
23	52	52	37	33	37	4,514	4,988	4,933	4,759
24	50	50	50	48	55	4,279	4,200	4,275	4,370
25	44	44	36	33	37	5,463	5,857	5,717	5,640
26	35	35	39	38	41	4,158	4,427	4,376	4,139
27	87	87	52	48	55	2,965	3,048	2,947	2,938
28	92	92	51	47	53	2,968	2,957	2,919	2,924
29	111	111	50	47	53	3,041	3,159	3,059	3,032
30	97	97	43	39	44	3,120	3,242	3,177	3,173
Total	1,828	1,828	1,032	955	1,064	126,178	129,347	128,164	126,336

Table 22a. Governor Edmund G. Brown California Aqueduct
San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

November 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitle-ment	USBR	Return of Contractor Pump-in	Purchase Pool A	MWD Ent.		
	No.	Structure	Mile									
7	21	Check No. 21	172.40		123,447							
8C	22		172.66	Empire West Side Irrig. Dist. TL - A	0	100 134 30 12 31 103 13						
				County of Kings TL - A	100							
				TLBWSD TL-A	134							
8D			175.18	DRWD - 1	30							
			177.54	DRWD - 1B	0							
			180.64	TLBWSD - C	0							
31A			180.65	DRWD - 1A	12							
			182.99	DRWD - 2	31							
			183.00	Tulare Lake Basin WSD TL - B	103							
8D			184.63	Coastal Branch	1,828							
			184.78	Dudley Ridge Water Dist. DRWD - 3	13							
				Dudley Ridge Reach 8D Total:	86							
				Tulare Lake Basin WSD Total:	237							
			Check No. 22	184.82								
9	23		189.69	Kern County Water Agency Lost Hills Water Dist. - 1	554			554				
			191.18	Kern County Water Agency Lost Hills Water Dist. - 2	9							
			194.22	Kern County Water Agency Lost Hills Water Dist. - 3	1							
			196.40	Kern County Water Agency Berrenda Mesa - 2	0							
			196.75	Kern County Water Agency Lost Hills Water Dist. - 4	0							
				K.C.W.A. Reach 9 Subtotal:	564							
10A	24		Check No. 23	197.05				0	564	0		
			201.24	Kern County Water Agency Lost Hills Water Dist. - 7	115							
			202.05	Kern County Water Agency Lost Hills Water Dist. - 5	0							
			204.69	Kern County Water Agency Lost Hills Water Dist. - 6	0							
			205.26	Kern County Water Agency Lost Hills Water Dist. - 8	0							
			Check No. 24	207.94								
10A	25		209.71	Kern County Water Agency Belridge Water Storage Dist. - 1A	0			1	114			
			209.78	Kern National Wildlife Refuge USBR BV-1B	4,635							
				Kern County Water Agency Buena Vista WSD 1B	0							
			209.80	KCWA Semitropic WSD	0							
				KCWA Semitropic WSD Penstocks	0							
				USBR Total:	4,635							
				K.C.W.A. Reach 10A Subtotal:	115							

Table 22b. Governor Edmund G. Brown California Aqueduct
San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

November 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Federal Wheeling	Return of Contractor Pump-in	Purchase Pool A	MWD Ent.		
	No.	Structure	Mile									
11B	25	210.75	Kern County Water Agency Belridge - 2	0	1,162	1						
		214.11	Kern County Water Agency Belridge - 3	1								
		216.62	Kern County Water Agency Belridge - 4	0								
		217.13	Kern County Water Agency Belridge - 5	1,162								
			Kern County Water Agency Belridge - 5D	68								
		Check No. 25	217.79									
			K.C.W.A. Reach 11B Subtotal:	1,231	1,231	0	0	0	0	0		
12D	26	219.58	Kern County Water Agency Belridge - 6	0	11	11						
			Kern County Water Agency West Kern - 3	11								
		Check No. 26	224.92									
		27	230.37	Kern County Water Agency Buena Vista - 6	0							
12E	28	Check No. 27	231.73									
		235.75	Kern County Water Agency Buena Vista - 2	0								
			Kern County WA CVC	0								
			DRWD CVC	0								
			Tulare Co.	0								
			Lower Tule River	0								
			Fresno Co.	0								
			Pixley ID	0								
			Hacienda									
			DWR Wells	0								
		Check No. 28	238.11									
			1/ Arvin Edison Total:	0	0	0	0	0	0	0		
			Reach 12E Subtotal:	11	11	0	0	0	0	0		
13B	29	238.19	Kern Water Bank Inflow	0			238					
		241.02	Kern Water Bank Outflow	238								
		242.85	Kern River Intertie (inflow)	0								
		243.09	KCWA Buena Vista WSD - 7	0								
		Check No. 29	KCWA Buena Vista WSD - 5	0								
		244.54	Kern County Water Agency Buena Vista - 3	0								
		249.85	Buena Vista WSD	0								
		Buena Vista Pumping Plant	250.99									
			K.C.W.A. Reach 13B Subtotal:	238								
		31	254.47	Kern County Water Agency West Kern - 2	0							
14A			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	0							

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

Table 22c. Governor Edmund G. Brown California Aqueduct
San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

November 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Inter-ruptible Ent.	Return of Contractor Pump-in	Exchange	MWD Ent.		
	No.	Structure	Mile									
14A	31	Check No. 31	256.14			9	42	0	0	0		
	32		258.61	Kern County Water Agency Wheeler Ridge-Maricopa - 3	9							
			260.44	Kern County Water Agency Wheeler Ridge-Maricopa - 4	42							
		Check No. 32	261.72									
				KCWA Reach 14A Subtotal:	51	51	0	0	0	0		
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	561	561	121	0	0	0		
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	121							
		Check No. 33	267.36									
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	261	261						
			271.27									
				Reach 14B Total:	943							
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	507	507	313	0	0	0		
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	313							
				Reach 14C Total:	820							
	Teerink Pumping Plant	278.13			129,347							
15A	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	228	228	113	0	0	0		
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	113							
				Reach 15-A Total:	341							
	Chrisman Pumping Plant	280.36			128,164							
	37		282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0							
		Check No. 37	283.95									
16A	38		285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	3	3	0	0	0	0		
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	0							
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0							
		Check No. 38	287.09									
	39		287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	0							
		Check No. 39	290.21									
	40		291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	50	50	4	0	0	0		
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	4							
				Kern County Water Agency Tehachapi Cummings CWD	0							
				K.C.W.A. Reach 16A Subtotal:	57							
17E	Edmonston Pumping Plant	293.45			126,336							

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

November 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
		Beginning and Ending				Entitlement	Inter-ruptible Ent.	Return of Contractor Pump-in	Exchange	Purchase Pool B		
	No.	Structure	Mile									
31A	C-1	Coastal Branch Control	0.02	Turnout	1,828	Entitlement	Inter-ruptible Ent.	Return of Contractor Pump-in	Exchange	Purchase Pool B		
		Las Perillas Pumping Plant	1.16		1,828							
	C-2		3.79		Green Valley Water District							
		Badger Hill Pumping Plant	4.27									
	C-3	Coastal Check No. 3	7.21									
	C-4		9.34		Castaic Lake WA (Devil's Den WD #1)							
		Coastal Check No. 4	9.34									
	C-5	Coastal Check No. 5	12.20									
	C-6		13.30		Kern County Water Agency Berrenda Mesa - 3							
			14.83		Kern County Water Agency Berrenda Mesa - DD							
					Kern County Water Agency Berrenda Mesa - PO							
		Devil's Den Pumping Plant	14.86									
				K.C.W.A. Reach 31A Subtotal:	779	0	0	779	0	0		
				K.C.W.A. Total:	5,150	3,455	0	1,695	0	0		
33A	C-7	Bluestone Pumping Plant	19.05	Turnout	955	Entitlement	Inter-ruptible Ent.	Return of Contractor Pump-in	Exchange	Purchase Pool B		
	C-8	Polonio Pass Pumping Plant	26.54		1,064							
	C-9	Tank Site 1	27.81		(CCWA) Polonio Pass Treatment Plant							
	C-10	Shandon T.O.	38.23		Santa Barbara County (CCWA)							
		Tank Site 2	58.63		Central Coast:							
34	C-11	Chorro Valley T.O.	69.31	Turnout	267	Entitlement	Inter-ruptible Ent.	Return of Contractor Pump-in	Exchange	Purchase Pool B		
		Energy Dissipater	78.12									
		Lopez T.O.	85.86		SLOCFC & WCD							
35	C-12				CCWA Total:							
		Guadalupe T.O.	102.70		SBCFC & WCD							
		Santa Maria T.O.	107.43		SBCFC & WCD							
		So. Cal. Water T.O.	109.20		SBCFC & WCD							
38				Turnout	SBCFC & WCD Total:							
		Tank Site 5	115.42									

Table 24. Southern Field Division Plant Data

(in acre-feet)

November 2001

Date	West Branch					East Branch									Devil Canyon Powerplant Generation	
	Oso Pumping Plant	Warne Powerplant		Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant			Generation	Leakage	Bypass Flume	
		Generation	Leakage	Generation	Pumpback	Generation	Bypass Through Plant	Cottonwood Chute		Generation	Leakage	Bypass Flume				
1	2,031	1,959	0	4,308	3,040	1,263	0	249	1,453	1,552	0	0	0	0	1,446	
2	2,180	2,180	0	2,308	1,160	1,798	0	168	1,752	1,654	0	0	0	0	1,875	
3	2,092	2,407	0	1,748	0	1,222	0	76	1,048	628	0	0	0	0	2,215	
4	3,829	2,401	0	771	1,842	2,095	0	0	1,890	1,856	0	0	0	0	1,879	
5	1,012	2,176	0	5,409	1,893	993	0	210	921	1,252	0	0	0	0	1,968	
6	1,296	2,224	0	6,562	1,685	318	0	131	631	585	0	0	0	0	2,332	
7	2,012	1,580	0	4,333	563	1,505	0	115	1,565	1,659	0	0	0	0	1,909	
8	2,489	2,393	0	6,012	764	1,857	0	233	1,878	1,776	0	0	0	0	2,248	
9	2,600	2,355	0	4,413	759	1,407	0	451	1,584	1,596	0	0	0	0	2,177	
10	2,997	1,526	0	391	2,045	0	0	1,804	1,504	1,624	0	0	0	0	2,055	
11	3,403	3,038	0	279	4,861	0	0	164	0	219	0	0	0	0	2,139	
12	2,150	2,623	0	5,911	0	395	0	0	466	396	0	0	0	0	2,001	
13	2,008	2,273	0	6,113	819	1,962	0	599	2,254	1,799	0	0	0	0	1,604	
14	1,766	2,008	0	5,835	1,727	1,886	0	905	2,649	2,661	0	0	0	0	1,907	
15	2,025	2,265	0	6,183	1,708	1,673	0	834	2,391	2,497	0	0	0	0	1,915	
16	2,212	2,063	0	5,251	1,682	2,429	0	0	2,553	2,442	0	0	0	0	2,065	
17	2,120	2,701	0	484	3,318	3,007	0	22	2,546	2,396	0	0	0	0	2,000	
18	3,927	2,041	0	1,135	5,065	3,553	0	175	3,620	3,569	0	0	0	0	2,052	
19	1,826	1,865	0	6,151	1,096	2,626	0	171	2,749	2,850	0	0	0	0	2,194	
20	2,042	2,066	0	7,763	1,794	2,367	0	185	2,317	2,258	0	0	0	0	2,111	
21	2,201	1,879	0	6,844	2,233	2,248	0	31	2,246	2,590	0	0	0	0	2,303	
22	2,565	2,309	0	562	2,392	3,307	0	0	3,059	2,538	0	0	0	0	1,975	
23	2,091	2,299	0	1,187	1,292	2,722	0	0	2,475	2,663	0	0	0	0	2,359	
24	2,042	2,216	0	4,138	1,457	2,311	0	0	2,231	1,952	0	0	0	0	2,052	
25	2,571	2,024	0	4,751	3,304	3,114	0	0	2,617	2,845	0	0	0	0	1,980	
26	1,580	1,696	0	3,370	1,451	2,629	0	0	2,564	2,460	0	0	0	0	1,593	
27	1,403	1,611	0	5,212	762	833	0	640	1,559	1,470	0	0	0	0	1,218	
28	1,351	1,634	0	5,110	729	0	0	1,524	1,402	1,445	0	0	0	0	1,491	
29	1,530	1,632	0	3,029	2,739	0	0	1,398	1,420	1,396	0	0	0	0	726	
30	1,533	1,484	0	7,003	1,862	351	0	1,306	1,611	1,571	0	0	0	0	752	
Total	64,884	62,928	0	122,566	54,042	49,871	0	11,391	56,955	56,199	0	0	0	0	56,541	

Table 25. Pyramid Lake
Daily Operation

Capacity: 171,200 ac-ft

(in acre-feet except as noted)

November 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow			Computed Losses (-) And Gains (+)	
				Project		Natural	Project		Natural		
				Castaic Powerplant Pumpback	Warne Powerplant	Stream Flow	Castaic Powerplant Generation	Recreation Deliveries	To Piru Creek		
Oct 31	2571.50	161,645									
1	2571.98	162,246	601	3,040	1,959	21	4,308	0	12	-99	
2	2572.82	163,300	1,054	1,160	2,180	20	2,308	0	12	14	
3	2573.25	163,841	541	0	2,407	20	1,748	0	12	-126	
4	2575.99	167,319	3,478	1,842	2,401	20	771	0	12	-2	
5	2574.85	165,866	-1,453	1,893	2,176	20	5,409	0	12	-121	
6	2572.83	163,312	-2,554	1,685	2,224	21	6,562	0	12	90	
7	2571.00	161,021	-2,291	563	1,580	20	4,333	0	12	-109	
8	2568.70	158,171	-2,850	764	2,393	20	6,012	0	12	-3	
9	2567.64	156,869	-1,302	759	2,355	20	4,413	0	12	-11	
10	2570.29	160,138	3,269	2,045	1,526	20	391	0	12	81	
11	2576.43	167,882	7,744	4,861	3,038	21	279	0	12	115	
12	2574.00	164,788	-3,094	0	2,623	31	5,911	0	12	175	
13	2571.58	161,745	-3,043	819	2,273	40	6,113	0	12	-50	
14	2569.87	159,617	-2,128	1,727	2,008	38	5,835	0	12	-54	
15	2568.01	157,323	-2,294	1,708	2,265	27	6,183	0	12	-99	
16	2566.94	156,012	-1,311	1,682	2,063	24	5,251	0	12	183	
17	2571.39	161,508	5,496	3,318	2,701	24	484	0	12	-51	
18	2576.16	167,536	6,028	5,065	2,041	24	1,135	0	12	45	
19	2573.45	164,093	-3,443	1,096	1,865	24	6,151	0	12	-265	
20	2570.32	160,175	-3,918	1,794	2,066	24	7,763	0	12	-27	
21	2568.06	157,384	-2,791	2,233	1,879	24	6,844	0	12	-71	
22	2571.41	161,533	4,149	2,392	2,309	24	562	0	12	-2	
23	2573.21	163,791	2,258	1,292	2,299	24	1,187	1	12	-157	
24	2572.83	163,312	-479	1,457	2,216	27	4,138	0	12	-29	
25	2573.20	163,778	466	3,304	2,024	33	4,751	0	12	-132	
26	2573.02	163,551	-227	1,451	1,696	35	3,370	0	12	-27	
27	2570.66	160,598	-2,953	762	1,611	29	5,212	0	12	-131	
28	2568.29	157,667	-2,931	729	1,634	27	5,110	0	12	-199	
29	2569.36	158,986	1,319	2,739	1,632	26	3,029	0	13	-36	
30	2566.29	155,220	-3,766	1,862	1,484	27	7,003	0	13	-123	
Total				-6,425	54,042	62,928	755	122,566	1	362	-1,221

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,746 ac-ft

November 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation	Natural	Castaic Powerplant Pumpback	To Castaic Lake			
							Natural	Project		
Oct 31	1517.47	22,175								
1	1520.42	23,420	1,245	4,308	0	3,040	0	0	-23	
2	1513.89	20,712	-2,708	2,308	0	1,160	0	3,858	2	
3	1514.52	20,966	254	1,748	0	0	0	1,493	-1	
4	1511.73	19,856	-1,110	771	0	1,842	0	0	-39	
5	1510.89	19,528	-328	5,409	0	1,893	0	3,843	-1	
6	1522.43	24,287	4,759	6,562	0	1,685	0	0	-118	
7	1521.00	23,668	-619	4,333	0	563	0	4,387	-2	
8	1522.68	24,396	728	6,012	0	764	0	4,522	2	
9	1530.56	27,941	3,545	4,413	0	759	0	0	-109	
10	1523.46	24,736	-3,205	391	0	2,045	0	1,551	0	
11	1501.76	16,145	-8,591	279	0	4,861	0	4,010	1	
12	1516.50	21,773	5,628	5,911	0	0	0	0	-283	
13	1522.44	24,291	2,518	6,113	0	819	0	2,777	1	
14	1521.90	24,057	-234	5,835	0	1,727	0	4,343	1	
15	1531.54	28,398	4,341	6,183	0	1,708	0	0	-134	
16	1531.56	28,408	10	5,251	0	1,682	0	3,560	1	
17	1515.36	21,307	-7,101	484	0	3,318	0	4,267	0	
18	1505.40	17,456	-3,851	1,135	0	5,065	0	0	79	
19	1518.06	22,421	4,965	6,151	0	1,096	0	0	-90	
20	1521.07	23,699	1,278	7,763	0	1,794	0	4,689	-2	
21	1525.29	25,544	1,845	6,844	0	2,233	0	2,766	0	
22	1521.14	23,729	-1,815	562	0	2,392	0	0	15	
23	1511.34	19,703	-4,026	1,187	0	1,292	0	3,921	0	
24	1510.45	19,358	-345	4,138	0	1,457	0	3,067	41	
25	1514.15	20,817	1,459	4,751	0	3,304	0	0	12	
26	1518.68	22,681	1,864	3,370	0	1,451	0	0	-55	
27	1521.42	23,849	1,168	5,212	0	762	0	3,282	0	
28	1524.24	25,079	1,230	5,110	0	729	0	3,152	1	
29	1524.96	25,397	318	3,029	0	2,739	0	0	28	
30	1529.01	27,225	1,828	7,003	0	1,862	0	3,318	5	
Total				5,050	122,566	0	54,042	0	62,806	
									-668	

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

November 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay		Natural	Deliveries	Released To Castaic Lagoon		
				Natural	Project					
Oct 31	1492.24	275,157								
1	1491.52	273,697	-1,460	0	0	0	1,505	0	45	
2	1492.63	275,950	2,253	0	3,858	0	1,562	0	-43	
3	1492.64	275,970	20	0	1,493	0	1,521	0	48	
4	1491.82	274,304	-1,666	0	0	0	1,676	0	10	
5	1492.86	276,418	2,114	0	3,843	0	1,693	0	-36	
6	1492.02	274,710	-1,708	0	0	0	1,694	0	-14	
7	1493.26	277,233	2,523	0	4,387	0	1,809	0	-55	
8	1494.59	279,955	2,722	0	4,522	0	1,719	0	-81	
9	1493.71	278,152	-1,803	0	0	0	1,776	0	-27	
10	1493.61	277,948	-204	0	1,551	0	1,822	0	67	
11	1494.73	280,242	2,294	0	4,010	0	1,875	0	159	
12	1493.89	278,520	-1,722	0	0	0	1,713	0	-9	
13	1494.46	279,688	1,168	0	2,777	0	1,625	0	16	
14	1495.75	282,341	2,653	0	4,343	0	1,684	0	-6	
15	1494.97	280,735	-1,606	0	0	0	1,823	0	217	
16	1495.79	282,423	1,688	0	3,560	0	1,838	0	-34	
17	1496.96	284,843	2,420	0	4,267	0	1,797	0	-50	
18	1496.09	283,043	-1,800	0	0	0	1,925	0	125	
19	1495.13	281,064	-1,979	0	0	0	1,925	0	-54	
20	1496.31	283,497	2,433	0	4,689	0	1,923	0	-333	
21	1496.67	284,242	745	0	2,766	0	1,923	0	-98	
22	1495.75	282,341	-1,901	0	0	0	1,924	0	23	
23	1496.71	284,325	1,984	0	3,921	0	1,814	0	-123	
24	1497.48	285,922	1,597	0	3,067	2	1,751	0	279	
25	1496.64	284,180	-1,742	0	0	5	1,724	0	-23	
26	1495.79	282,423	-1,757	0	0	2	1,711	0	-48	
27	1496.49	283,869	1,446	0	3,282	2	1,745	0	-93	
28	1497.14	285,216	1,347	0	3,152	1	1,705	0	-101	
29	1496.36	283,601	-1,615	0	0	2	1,688	0	71	
30	1497.12	285,175	1,574	0	3,318	3	1,721	0	-26	
Total			10,018	0	62,806	17	52,611	0	-194	

Table 28. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

November 2001										
Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries					
	Beginning and Ending				Entitle-ment	Rec.	Local			
	No.	Structure	Mile		Water Bank Recovery	CLWA T1				
29A	42	Oso Pumping Plant	1.49	64,884						
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved					
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub					
29G		Warne Power Plant	14.07		62,928					
29H	W3	Pyramid Lake		Calif. State Park Pyramid Recreation	1	1				
		Pyramid Dam	17.10	Piru Creek Fish Enhancement	0					
29J	W4	Castaic Power Plant	25.82	(54,042 AF pumpback)	122,566					
		Elderberry Forebay								
		Forebay Dam	28.12							
30 1/	W5	Castaic Lake		Calif. State Park Castaic Lake Recreation	6	6				
		Castaic Dam	31.47							
		Castaic Lake Outlet	31.55	MWD - 78"	11,516	6,516				
				MWD - 132"	38,100	23,966				
				Castaic Lake WA - T1	1,317	498				
				Castaic Lake WA	1,518	154				
				United Water Conservation Dist.	0					
				MWD - Ventura County FCD	154					
				LA Co. Parks & Recreation	0					
				Releases to Lagoon	0					
				Reach 30 Subtotal:	52,611	31,134	6	1,020	19,134	1,317
	W6	Castaic Lagoon		Recreation to Lagoon	0					
		Castaic Lagoon Outlet	31.87							

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

Table 29. Silverwood Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

November 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
							Project			Del. To Mojave W.A.	Natural To Mojave River			
Oct 31	3352.44	72,494		Mojave Siphon Power-plant	Mojave Bypass Flume	Natural Stream Flow	Delivered to CLAWA	Rec.	San Bernardino Tunnel					
1	3352.60	72,647	153	1,552	0	0	5	0	1,446	0	0	52	3	
2	3352.36	72,417	-230	1,654	0	0	7	0	1,875	0	0	-2	3	
3	3350.69	70,828	-1,589	628	0	0	5	0	2,215	0	1	4	3	
4	3350.68	70,818	-10	1,856	0	0	6	0	1,879	0	0	19	3	
5	3349.83	70,016	-802	1,252	0	0	3	0	1,968	0	0	-83	3	
6	3347.99	68,298	-1,718	585	0	0	4	1	2,332	0	1	35	3	
7	3347.78	68,103	-195	1,659	0	0	5	0	1,909	0	0	60	3	
8	3347.35	67,706	-397	1,776	0	0	3	0	2,248	0	0	78	3	
9	3346.69	67,098	-608	1,596	0	0	4	0	2,177	0	1	-22	3	
10	3346.26	66,703	-395	1,624	0	0	4	0	2,055	0	0	40	3	
11	3344.02	64,668	-2,035	219	0	0	4	0	2,139	0	1	-110	3	
12	3342.39	63,209	-1,459	396	0	0	4	0	2,001	0	0	150	3	
13	3342.59	63,387	178	1,799	0	0	4	0	1,604	0	1	-12	3	
14	3343.47	64,174	787	2,661	0	0	4	0	1,907	0	0	37	3	
15	3344.01	64,659	485	2,497	0	0	5	0	1,915	0	1	-91	2	
16	3344.65	65,237	578	2,442	0	0	4	0	2,065	0	0	205	2	
17	3345.04	65,591	354	2,396	0	0	3	1	2,000	0	1	-37	2	
18	3346.61	67,024	1,433	3,569	0	0	4	0	2,052	0	0	-80	2	
19	3347.42	67,770	746	2,850	0	0	5	0	2,194	0	0	95	2	
20	3347.62	67,955	185	2,258	0	0	4	0	2,111	0	1	43	0	
21	3347.88	68,196	241	2,590	0	0	3	0	2,303	0	0	-43	0	
22	3348.50	68,772	576	2,538	0	0	4	0	1,975	0	0	17	0	
23	3348.82	69,070	298	2,663	0	0	3	0	2,359	0	1	-2	0	
24	3348.83	69,080	10	1,952	0	0	4	0	2,052	0	0	114	0	
25	3349.70	69,894	814	2,845	0	0	2	1	1,980	0	0	-48	0	
26	3350.76	70,894	1,000	2,460	0	0	3	0	1,593	0	1	137	0	
27	3351.01	71,131	237	1,470	0	0	3	0	1,218	0	0	-12	0	
28	3350.98	71,102	-29	1,445	0	0	3	0	1,491	0	0	20	0	
29	3351.62	71,711	609	1,396	0	0	3	0	726	0	1	-57	0	
30	3352.46	72,513	802	1,571	0	0	2	0	752	0	0	-15	0	
Total				19	56,199	0	0	118	3	56,541	0	11	493	52

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

November 2001

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Oct 31	1586.17	122,672				
1	1586.15	122,627	-45		11	
2	1586.13	122,581	-46		11	
3	1586.09	122,491	-90		11	
4	1586.05	122,400	-91		11	
5	1586.05	122,400	0		12	
6	1586.01	122,310	-90		10	
7	1585.99	122,265	-45		12	
8	1585.82	121,881	-384		10	
9	1585.79	121,813	-68		14	
10	1585.78	121,790	-23		13	
11	1585.75	121,723	-67		11	
12	1585.78	121,790	67		12	
13	1585.72	121,655	-135		12	
14	1585.77	121,768	113		12	
15	1585.91	122,084	316		12	
16	1585.94	122,152	68		11	
17	1585.91	122,084	-68		11	
18	1585.85	121,948	-136		13	
19	1585.82	121,881	-67		12	
20	1585.87	121,994	113		12	
21	1585.86	121,971	-23		12	
22	1585.89	122,039	68		11	
23	1585.83	121,903	-136		12	
24	1585.82	121,881	-22		12	
25	1585.78	121,790	-91		12	
26	1585.85	121,948	158		13	
27	1585.94	122,152	204		14	
28	1585.81	121,858	-294		11	
29	1585.91	122,084	226		10	
30	1585.86	121,971	-113		12	
Total			-701	892	352	-1,241

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at Lake Perris.

Table 31a. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

November 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitle-ment	Rec.	Transfer 1/	Purchase Pool B	Transfer Local Out		
	No.	Structure	Mile									
17E	40	Edmonston Pumping Plant	293.45		0							
	41		298.65		Kern County Water Agency Tej.-Cas		Stub					
17F		Check No. 41	303.41									
18A	42	Check No. 42	304.99									
19	43	Alamo Powerplant	305.73	(Does not include 11,391 AF flow down Cottonwood Chute)	49,871	2	378	101				
			308.05	Antelope Valley-East Kern WA	0							
		Check No. 43	309.70									
	44		311.84	LADWP Connection	0							
			313.50	AVEK 245th Street West	0							
	Check No. 44		314.81									
	45		314.93	AVEK 235th Street West	2							
			315.57	AVEK 225th Street West	0							
	Check No. 45		319.74									
	46		323.19	Antelope Valley-East Kern WA Fairmont	479							
		Check No. 46	323.84									
				Reach 19 Total:	481							
20A	47	Check No. 47	326.77			49	2,558	20				
	48		326.91	Antelope Valley-East Kern WA Willow Springs Siphon	49							
			329.65	Antelope Valley-East Kern WA 120th Street West	Re-moved							
		Check No. 48	330.82									
	49	Check No. 49	335.93									
	50		336.73	AVEK WA - Quartz Hill (Wheeled for Palmdale WD)	2,558							
			339.68	Antelope Valley-East Kern WA	0							
		Check No. 50	341.51	Antelope Valley-East Kern WA	20							
20B	51	Check No. 51	342.07			502	86					
	52		342.80	Antelope Valley-East Kern WA 30th Street West	Not in Use							
		Check No. 52	343.74									
	53		346.98	PWD Palmdale	502							
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant	86							
21		Check No. 53	348.17			3	17					
	54	Check No. 54	350.25									
	55	Check No. 55	352.70									
	56	Check No. 56	354.76									
			354.97	Littlerock Creek I.D.	0							
22A	57	Check No. 57	356.93			211	3					
	58		357.60	Antelope Valley-East Kern WA	3							
			357.72	Antelope Valley-East Kern WA 96th Street East	17							
			359.82	Antelope Valley-East Kern WA East Side Treatment Plant	211							

1/ AVEK transferred this water to Mojave Water Agency.

Table 31b. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

November 2001

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries									
	Beginning and Ending					Entitle-ment	Recreation	Ex-change	Water Bank Recovery	Local					
	No.	Structure	Mile												
22B	58	Pearblossom Pumping Plant	360.61		56,955	234	118	3	52						
	59	Check No. 59	366.09												
	60	Check No. 60	373.94												
	61	Check No. 61	379.00												
	62	Check No. 62	384.26												
	63	Check No. 63	389.20		Mojave Water Agency Mojave River										
	64	Check No. 64	395.10												
	65	Check No. 65	400.32												
	66		401.10		Mojave Water Agency Morongo 24" and 42"	234									
					Mojave Water Agency Hesperia										
23	Check No. 66	403.41													
24	Mojave Siphon	405.48	Las Flores Ranch	407.65	52	118	3	52							
	Mojave Siphon Powerplant	405.65			56,199										
	Silverwood Lake		Crestline Lake Arrowhead Water Agency		118										
			Calif. State Park Silverwood Agency (Rec.)		3										
	San Bernardino Tunnel	411.46			56,541										
25			San Gorgonio Pass Water Agency		0										
26A	Devil Canyon Powerplant	412.73		412.88	56,541	35,546	114	3,164							
	Devil Canyon Afterbay Control Structures		MWD-SC Rialto		35,546										
			Desert Water Agency (MWD Wheeling Exchange)		0										
			San Gabriel Valley Water District		0										
			Coachella Valley WD (MWD Wheeling Exchange)		0										
			San Bernardino Valley MWD 24" and 72"		3,164										
			San Bernardino Valley MWD 48"		114										
			MWD (SBVMWD Exchange)		0										
28G	Santa Ana Valley Pipeline	425.46				4,386	12,950	296							
28H		433.06	MWD-SC Box Springs		4,386										
		440.05	MWD-SC Perris Bypass Pipeline		12,950										
28J	Lake Perris	442.00	MWD-SC 18"	443.44	296	10	19	27							
			MWD-SC 54"		10										
			MWD-SC 78"		19										
			Calif. State Park Lake Perris Recreation		27										
			MWD Total:		104,294	83,843	0	0	19,134	1,317					

Table 32. Water Quality At Selected SWP Locations

November 2001

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Banks Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct				Devil Canyon Afterbay Near San Bernardino
						O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	
Alkalinity	mg/l as CaCO ₃	50	83	76	76	80	86	79	82	84
Antimony	mg/l	NR	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NR	<0.005
Arsenic	mg/l	<0.001	0.002	0.002	0.002	0.002	0.003	0.004	0.004	0.003
Beryllium	mg/l	NR	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1
Bromide	mg/l	<0.01	0.04	0.30	0.31	0.34	0.39	0.35	0.34	0.40
Calcium	mg/l	10	15	19	18	19	21	22	22	21
Carbon - Dissolved Organic	mg/l as C	NR	3	3	3	3	3	2	3	2
Carbon - Total Organic	mg/l as C	NR	3	3	3	3	3	3	3	2
Chloride	mg/l	<1	19	89	94	104	120	109	105	120
Chromium	mg/l	0.001	0.005	0.003	0.003	0.003	0.002	0.004	0.004	0.004
Copper	mg/l	<0.001	0.002	0.002	0.003	0.002	0.002	0.003	0.003	0.004
Fluoride	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.1	0.1
Hardness	mg/l as CaCO ₃	45	84	103	94	105	116	108	116	117
Iron	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4.66	11.6	13.6	12.3	13.8	15.4	12.9	14.6	16
Manganese	mg/l	<0.005	0.008	0.008	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l as N	<0.01	0.38	0.80	NR	NR	0.60	NR	0.53	0.43
Phosphorus-Ortho	mg/l as P	<0.01	0.08	0.06	NR	NR	0.07	NR	0.07	0.09
Phosphorus-Total	mg/l	<0.01	0.14	0.08	NR	NR	0.08	NR	0.13	0.09
Selenium	mg/l	NR	<0.001	0.002	NR	NR	NR	0.003	NR	<0.001
Sodium	mg/l	4.35	20.5	60.2	56.5	63.7	73.1	70.6	72.4	74
Specific Conductance	µS/cm	103	264	530	536	582	651	614	605	615
Sulfate	mg/l	2	18	35	36	40	46	54	48	40
Total Dissolved Solids	mg/l	70	171	308	311	330	378	333	329	336
Turbidity	NTU	3	36	5	9	5	7	12	10	2

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

Table 33. Water Quality At Selected Delta Stations

November 2001

Date	Tides (feet above mean sea level)		Flow In CFS		Electrical Conductivity in milliSiemens/cm								Cl in mg/l Contra Costa Canal Intake			
	(Antioch) Daily Mean		Net Delta Outflow Index Mean Daily	Rio Vista Monthly Average	Antioch	Chippis island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal			
	Hi	Half					md	md	md	14dm						
38	1	2.56	0.73	6,042	6,042	4,980	5.24	12.68	2.57	2.79	1.15	1.37	0.65	0.66	0.47	198
	2	2.73	0.83	6,015	6,028	4,965	5.51	13.15	2.77	2.76	1.27	1.33	0.65	0.64	0.46	190
	3	2.85	0.91	5,480	5,846	4,741	5.75	13.45	2.94	2.72	1.37	1.30	0.61	0.65	0.44	187
	4	2.98	0.96	5,595	5,783	4,618	5.84	13.82	3.14	2.68	1.54	1.28	0.61	0.67	0.42	182
	5	3.00	1.11	3,539	5,334	3,979	6.15	13.15	3.39	2.69	1.66	1.28	0.57	0.70	0.43	182
	6	2.99	1.22	2,078	4,792	3,944	6.46	14.64	3.65	2.78	1.63	1.29	0.57	0.72	0.44	183
	7	2.42	0.91	3,738	4,641	4,288	5.55	0.00	2.83	2.84	1.49	1.31	0.54	0.75	0.44	182
	8	2.22	0.66	4,817	4,663	4,142	5.12	0.00	2.60	2.86	1.31	1.32	0.50	0.76	0.44	178
	9	2.21	0.72	4,687	4,666	4,003	5.40	12.65	2.76	2.88	1.32	1.32	0.48	0.76	0.44	183
	10	2.37	0.87	3,486	4,548	3,760	5.79	13.73	3.11	2.90	1.45	1.34	0.48	0.75	0.41	172
	11	2.64	1.07	3,139	4,420	3,830	6.43	14.51	3.69	2.97	1.79	1.38	0.50	0.75	0.40	178
	12	3.08	1.28	3,002	4,302	4,604	7.38	15.47	4.04	3.08	2.13	1.46	0.53	0.71	0.39	182
	13	2.85	1.07	9,674	4,715	7,933	6.70	14.45	3.70	3.14	1.96	1.51	0.66	0.42	0.42	168
	14	2.95	0.96	11,564	5,204	8,418	6.78	13.85	3.29	3.18	1.80	1.56	0.66	0.45	0.39	163
	15	3.02	0.99	11,708	5,638	8,921	6.50	13.74	3.24	3.23	1.90	1.62	0.66	0.51	0.38	160
	16	3.22	1.15	12,567	6,071	8,677	6.75	14.06	3.26	3.26	2.06	1.67	0.66	0.55	0.37	158
	17	2.86	1.10	9,642	6,281	8,028	6.56	13.53	3.06	3.27	2.00	1.72	0.66	0.61	0.37	162
	18	2.91	1.03	4,842	6,201	6,123	6.29	12.82	2.80	3.24	2.00	1.75	0.66	0.64	0.38	162
	19	2.69	0.98	4,013	6,086	5,658	6.23	12.77	3.11	3.22	2.04	1.78	0.66	0.67	0.38	146
	20	2.48	1.00	3,436	5,953	5,309	6.17	12.49	2.90	3.17	2.03	1.81	0.66	0.68	0.39	135
	21	2.37	1.02	4,535	5,886	6,224	6.32	13.06	3.12	3.19	2.20	1.86	0.66	0.69	0.40	158
	22	2.17	1.00	4,833	5,838	9,029	6.75	13.18	3.03	3.22	2.11	1.91	0.66	0.77	0.40	153
	23	1.80	0.52	5,761	5,835	9,327	5.79	11.86	1.79	3.15	1.84	1.95	0.66	0.75	0.42	150
	24	2.99	1.20	5,246	5,810	11,322	7.28	13.86	2.93	3.14	2.76	2.04	0.66	0.61	0.42	145
	25	2.35	0.64	11,366	6,032	16,075	6.03	12.32	1.78	3.00	2.40	2.09	0.66	0.42	0.42	150
	26	2.21	0.43	16,588	6,438	18,231	5.42	10.21	0.95	2.78	2.02	2.08	0.66	0.00	0.44	152
	27	2.24	0.44	17,185	6,836	19,107	4.57	9.17	0.63	2.56	1.94	2.08	0.66	0.54	0.43	150
	28	2.61	0.68	18,822	7,264	16,311	4.16	9.28	0.81	2.39	2.07	2.10	0.66	0.59	0.45	140
	29	3.31	1.30	20,225	7,711	13,137	4.83	10.66	1.07	2.23	2.44	2.14	0.66	0.37	0.43	157
	30	3.10	1.04	20,211	8,128	10,488	4.24	9.09	0.97	2.07	1.89	2.12	0.66	0.36	0.46	157

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

November 2001

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	September 19, 2001	Toluene 2,4-Dichlorophenylacetic acid (DCAA)	1.1 1.06
California Aqueduct At Banks Pumping Plant	September 19, 2001	Toluene 2,4-Dichlorophenylacetic acid (DCAA)	0.73 0.909
O'Neill Forebay Outlet Check 13	September 19, 2001	2,4-Dichlorophenylacetic acid (DCAA)	0.88
Delta Mendota Canal At McCabe Road	September 19, 2001	2,4-Dichlorophenylacetic acid (DCAA) Methyl tert-butyl ether (MTBE)	0.94 1.2
California Aqueduct Near Kettleman City (Check 21)	September 19, 2001	2,4-Dichlorophenylacetic acid (DCAA)	0.82
California Aqueduct At Near Highway 119 (Check 21)	September 18, 2001	2,4-Dichlorophenylacetic acid (DCAA)	1.00
Devil Canyon Power Plant At Entrance To Santa Ana Pipeline	September 17, 2001	2,4-Dichlorophenylacetic acid (DCAA)	0.81

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)

November 2001

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	2,801,376	0	14,112	21,196	1,085,184	1,085,184	328,000	186
2	2,810,880	2,880	20,860	32,270	1,272,000	1,272,000	345,015	192
3	3,119,616	0	24,325	34,111	1,493,568	1,493,568	345,510	184
4	2,909,952	0	30,632	40,929	1,342,656	1,342,656	308,825	190
5	2,911,392	0	32,361	39,270	873,408	873,408	175,115	191
6	2,923,488	0	36,141	42,924	1,917,312	1,917,312	175,175	184
7	2,900,448	0	32,389	43,407	1,359,744	1,359,744	220,285	185
8	2,908,800	0	27,447	38,675	1,037,760	1,037,760	319,280	189
9	2,911,104	0	28,497	39,788	1,079,424	1,079,424	351,765	189
10	2,870,784	0	26,866	40,040	1,640,832	1,640,832	346,875	177
11	2,330,784	0	24,360	36,652	1,962,816	1,962,816	270,745	180
12	2,353,824	2,016	22,988	36,323	1,594,752	1,594,752	194,250	177
13	2,911,680	0	23,730	37,191	1,872,192	1,872,192	166,425	177
14	2,909,664	0	25,445	34,293	2,139,072	2,139,072	145,130	179
15	2,963,808	0	25,095	35,070	2,534,016	2,534,016	48,590	180
16	2,876,544	0	21,469	29,484	2,298,240	2,298,240	27,380	176
17	1,528,416	7,200	21,889	31,038	3,019,392	3,019,392	39,620	176
18	38,880	13,248	23,541	31,353	2,737,152	2,737,152	27,290	177
19	1,820,160	4,608	23,478	29,491	2,768,256	2,768,256	36,540	178
20	1,640,160	4,320	26,166	29,862	2,559,552	2,559,552	27,375	181
21	931,968	8,064	26,362	31,241	1,646,400	1,646,400	27,420	179
22	137,664	13,824	23,905	27,307	1,747,584	1,747,584	28,725	174
23	213,120	14,400	22,862	27,517	1,634,496	1,634,496	33,120	177
24	327,168	14,112	18,718	23,905	2,166,912	2,166,912	35,090	181
25	338,112	12,960	21,280	29,470	1,922,112	1,922,112	31,220	184
26	1,899,072	8,064	21,497	25,774	1,772,928	1,772,928	30,605	183
27	3,718,368	0	23,247	30,093	1,646,208	1,646,208	29,390	183
28	1,582,848	6,624	20,349	27,608	1,968,960	1,968,960	29,765	183
29	1,952,928	4,032	18,655	27,629	1,184,448	1,184,448	34,045	186
30	2,226,528	1,152	19,313	27,636	435,072	435,072	28,575	184
Total	63,769,536	117,504	727,979	981,547	52,712,448	52,712,448	4,207,145	5,462

Table 36. San Luis Field Division Energy Data

(in kWh)

November 2001

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	512,352	404,352	298,368	298,368	1,738,368	-25,632
2	617,904	509,904	0	0	1,753,632	430,632
3	651,168	543,168	0	0	1,461,888	712,888
4	851,904	731,904	0	0	1,178,208	2,208
5	548,784	440,784	0	0	1,597,536	274,536
6	337,392	229,392	599,616	599,616	2,349,504	1,026,504
7	420,768	312,768	542,880	542,880	1,928,160	605,160
8	780,624	672,624	0	0	1,705,248	676,248
9	741,024	669,024	309,888	309,888	1,101,312	-25,688
10	764,928	692,928	389,088	389,088	437,472	-3,528
11	533,376	461,376	0	0	3,335,616	1,424,616
12	363,888	291,888	0	0	1,847,808	1,406,808
13	685,584	613,584	157,536	157,536	636,480	-520
14	727,776	655,776	0	0	1,316,160	91,160
15	661,392	589,392	105,984	105,984	2,757,024	1,067,024
16	609,264	537,264	636,192	636,192	3,451,392	2,345,392
17	758,880	686,880	952,992	952,992	3,276,000	1,887,000
18	1,101,600	1,029,600	0	0	4,952,160	2,312,160
19	628,704	556,704	547,200	547,200	3,046,752	2,056,752
20	708,192	636,192	0	0	2,757,600	1,335,600
21	520,128	475,128	54,144	54,144	2,703,456	1,055,456
22	823,248	775,248	0	0	3,353,184	881,184
23	608,544	563,544	0	0	2,143,872	721,872
24	674,352	629,352	0	0	1,808,352	414,352
25	724,752	676,752	0	0	3,649,248	193,248
26	558,144	513,144	0	0	1,640,160	248,160
27	436,608	391,608	956,160	956,160	2,842,560	1,114,560
28	449,568	404,568	0	0	4,468,896	2,020,896
29	420,048	375,048	0	0	3,248,640	1,263,640
30	463,248	418,248	590,976	590,976	463,968	17,968
Total	18,684,144	16,488,144	6,141,024	6,141,024	68,950,656	25,530,656

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Pumping Plant Energy Load Data

(in kWh)

November 2001

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devils Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	2,812	6,192	1,854	1,440	1,422	834,912	966,456	2,186,208	7,988,400
2	2,730	6,064	1,854	1,386	1,350	1,018,080	1,093,896	2,513,376	9,349,200
3	4,014	8,808	1,836	1,386	1,332	816,336	921,384	2,083,392	7,634,880
4	2,468	4,792	1,782	1,350	1,314	1,439,064	1,551,528	3,574,080	13,330,800
5	1,524	3,704	1,836	1,350	1,296	581,112	637,272	1,399,392	4,840,560
6	3,846	9,760	1,836	1,332	1,332	387,720	490,896	1,099,872	4,124,880
7	3,274	7,048	4,698	4,158	5,346	914,328	997,056	2,217,312	8,248,320
8	2,170	3,712	1,818	1,422	1,296	1,059,912	1,227,024	2,797,344	10,421,280
9	1,498	2,712	7,128	7,020	6,084	1,127,448	1,226,592	2,725,056	10,139,040
10	5,136	11,960	44,370	41,526	44,658	1,155,744	1,293,552	2,933,856	10,861,920
11	952	1,208	2,340	1,656	1,926	813,960	927,072	2,124,288	7,948,080
12	1,678	3,312	9,666	9,774	9,558	649,656	708,408	1,597,536	5,898,960
13	4,824	10,872	43,038	40,086	42,786	1,155,384	1,244,520	2,772,576	10,366,560
14	10,676	26,096	39,672	37,584	39,744	1,091,664	1,256,688	2,854,080	10,434,240
15	13,054	34,736	69,264	66,402	68,076	1,093,392	1,260,648	2,837,952	10,347,840
16	8,762	25,104	59,634	56,628	58,680	1,125,576	1,199,736	2,782,080	10,362,960
17	7,158	18,440	41,436	39,240	42,084	1,232,280	1,386,504	3,116,448	11,445,840
18	4,336	10,128	34,488	32,994	35,856	1,825,560	2,041,992	4,641,408	17,412,480
19	6,982	17,928	42,534	39,690	42,444	1,109,736	1,267,992	2,874,816	10,387,440
20	6,190	14,992	30,600	28,116	30,564	1,130,472	1,245,528	2,829,888	10,411,200
21	5,404	13,608	34,992	33,588	36,018	1,044,000	1,209,744	2,719,584	10,155,600
22	4,644	10,816	32,760	31,302	33,660	1,426,032	1,518,768	3,479,040	13,093,920
23	4,110	10,120	27,810	25,524	27,234	1,087,992	1,326,384	2,961,216	10,752,480
24	4,038	9,392	37,224	35,838	39,798	1,038,456	1,121,400	2,564,352	9,875,520
25	3,708	9,336	27,054	25,380	27,234	1,320,768	1,531,008	3,436,128	12,713,760
26	3,172	6,640	29,484	28,764	30,096	1,003,464	1,158,408	2,610,144	9,340,560
27	6,636	17,864	38,484	35,874	39,348	719,352	801,792	1,796,832	6,649,200
28	7,096	17,864	37,566	35,424	37,710	723,024	784,512	1,788,480	6,634,800
29	8,302	21,224	36,468	35,190	37,872	740,232	833,544	1,859,616	6,852,960
30	7,216	18,808	31,572	29,430	31,806	758,232	856,440	1,959,264	7,187,760
Total	148,410	363,240	775,098	730,854	777,924	30,423,888	34,086,744	77,135,616	285,211,440

Table 38. Southern Field Division Energy Data

(in kWh)

November 2001

Date	West Branch			East Branch			
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic SWP Generation	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation
1	535,808	1,175,616	2,160,000	149,100	974,940	1,810,560	115,395
2	575,288	1,324,512	2,160,000	212,184	1,172,928	2,316,960	130,704
3	555,184	1,425,672	2,160,000	144,312	720,012	2,752,704	47,607
4	1,006,656	1,440,936	2,160,000	247,324	1,259,172	2,321,472	146,559
5	268,184	1,305,792	2,160,000	117,124	620,808	2,394,144	88,935
6	343,504	1,334,736	2,160,000	37,548	430,080	2,807,328	38,871
7	533,288	947,952	2,160,000	177,604	1,043,292	2,313,888	134,946
8	658,952	1,436,040	2,160,000	219,184	1,252,404	2,720,352	148,218
9	688,184	1,413,360	1,830,000	166,040	1,060,608	2,621,088	133,329
10	789,768	915,768	2,160,000	0	1,001,484	2,490,912	129,549
11	896,224	1,822,824	2,160,000	0	13,392	2,588,832	0
12	570,304	1,574,136	2,160,000	46,704	319,620	2,419,392	0
13	531,384	1,363,824	2,160,000	231,532	1,510,044	1,946,208	153,468
14	470,680	1,205,136	2,160,000	222,600	1,767,780	2,305,344	221,445
15	533,848	1,359,000	2,160,000	197,456	1,583,628	2,311,872	212,499
16	579,656	1,310,184	2,160,000	286,580	1,681,080	2,503,296	210,063
17	557,760	1,621,080	2,160,000	354,788	1,705,428	2,424,576	200,781
18	1,040,648	1,224,288	2,160,000	419,272	2,402,220	2,497,824	311,514
19	483,784	1,119,888	2,160,000	309,876	1,830,180	2,652,576	241,017
20	541,184	1,240,056	2,160,000	279,328	1,542,732	2,555,040	184,926
21	582,008	1,127,664	2,160,000	265,272	1,493,292	2,768,928	208,614
22	679,728	1,385,856	2,160,000	390,292	2,022,828	2,413,536	200,445
23	554,120	1,379,592	2,160,000	321,244	1,635,192	2,843,232	214,137
24	541,352	1,329,768	2,160,000	281,204	1,471,404	2,484,864	159,138
25	681,352	1,214,928	2,160,000	367,444	1,765,680	2,413,056	230,601
26	422,744	1,017,504	1,560,000	310,268	1,702,212	1,937,472	192,507
27	378,896	966,888	1,560,000	98,308	1,036,824	1,504,992	114,093
28	366,408	980,424	1,560,000	0	940,836	1,810,272	112,119
29	412,944	980,352	1,560,000	0	949,368	890,400	109,473
30	409,808	889,776	1,560,000	41,440	1,077,084	934,848	121,947
Total	17,189,648	37,833,552	61,470,000	5,894,028	37,986,552	68,755,968	4,512,900